

Chemical Commodity Management Center (CCMC) Savannah River Site, South Carolina

Original Problem

SRS provided minimal site-level control over procurement, use and disposal of chemicals. Each operating facility used their in-house procedures for chemical management. This practice resulted in generation of hazardous and mixed wastes from outdated chemicals and use of toxic material where more environmentally acceptable alternatives are available.



The ROI Project Solution

SRS established an organization, facilities and infrastructure to provide site-wide control over the procurement, use, and disposal of chemicals. The Chemical Commodity Management Center (CCMC) significantly improved the management of material and reduced use of toxic chemicals.

DOE Monetary Benefits	
Cost	\$500,000
Lifecycle Savings	\$2,500,000
Return on Investment	400 %

Value Of Improvement

The CCMC controls the procurement, site inventory, and reuse and recycle of chemicals. This practice enhanced safety by reducing worker exposures to toxic chemicals and saved money by reducing material purchases and disposal of hazardous and mixed wastes. The CCMC has been recognized for its leadership and is involved in writing a Chemical Control Plan for the DOE complex.

Lifecycle Waste Reduction	
Life Cycle Waste Reduction	455,000 kgs.
Operation Commencement Date	12/95
Project Useful Life (Years)	10 years

Benefits At-A-Glance

- Reduce safety risk to workers and the environment
- Reduce generation of hazardous and mixed wastes
- Avoids waste and procurement costs associated with inefficient chemical use and control (~\$190K in FY99 and \$850K in FY00 YTD).

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Summary Data

ROI Priority Area: Newly Generated Waste

ROI Project Type: Source Reduction & Reuse/recycle

Project Cost: \$500,000

Lifecycle Savings: \$2,500,000 (\$250,000/yr for 10 year)

Implementing Group: EM, SRS Asset Management Group

Benefiting Group: EM, SRS Site

Useful Life Years: 10 years used for calculations

Return On Investment: 400 %

Lifecycle Waste Reduction: 455,000 kgs

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